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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/688,314
				Filing Date	September 22, 2000
				First Named Inventor	Mark Gurney
				Art Unit	1647
				Examiner Name	Sharon Turner
Sheet	1	of	4	Attorney Docket Number	29915/6280NCP

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code² (if known)			
JS	A1	5,424,205	6/13/95	Dovey et al.	
	A2	5,593,846	1/14/97	Schenk et al.	
	A3	5,733,768	3/31/98	Dixon et al.	
	A4	5,744,346	4/28/98	Chrysler et al.	
	A5	5,750,349	5/12/98	Suzuki et al.	
	A6	5,766,846	6/16/98	Schlossmacher et al.	
	A7	5,837,672	11/17/98	Schenk et al.	
	A8	5,849,560	12/15/98	Abraham	
	A9	5,942,400	8/24/99	Anderson et al.	
	A10	6,025,180	2/15/00	Powell et al.	
	A11	5,455,169	10/3/95	Mullan	
	A12	5,795,963	8/18/98	Mullan	
	A13	5,877,015	3/2/99	Hardy et al.	
	A14	6,211,428	4/3/01	Singh et al.	
	A15	6,221,645	4/24/01	Chryster et al.	
	A16	6,245,884	6/12/01	Hook	
JS	A17	6,245,964	6/12/01	McLonlogue et al.	
	A18	60/141,363		Lin et al.	
	A19	60/168,060		Lin et al.	
	A20	60/178,368		Lin et al.	
	A21	60/210,292		Hong et al.	
	A22	09/277,229		Citron et al.	
	A23	6,313,268		Hook	
	A24	60/177,836		Lin et al.	
	A25	60/119,571		Basi et al.	
	A26	60/139,172		Anderson et al.	
JS	A27	60/114,408		Basi et al.	
	A28	09/404,578		Chrysler et al.	
	A29	09/054,334		Anderson et al.	
	A30	09/730,329		Anderson et al.	
	A31	09/471,669		Anderson et al.	
	A32	09/501,708		Anderson et al.	
	A33	09/723,722		Anderson et al.	
	A34	09/724,566		Anderson et al.	
	A35	09/723,739		Anderson et al.	
	A36	09/724,571		Anderson et al.	

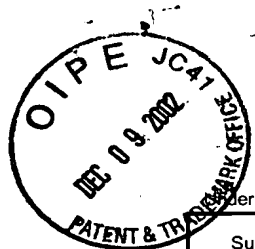
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85	A37	09/724,568		Anderson et al.	
85	A38	09/724,569		Anderson et al.	
85	A39	6,319,689		Powell et al.	
	A40	6,162,630	12/19/00	Powell et al.	
	A41	6,319,689	11/20/01	Powell et al.	
	A42	6,358,725	3/19/02	Christie et al.	
	A43	6,361,975	3/26/02	Christie et al.	
85	A44	6,291,223	9/18/01	Christie et al.	

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
85	B1	WO 96/31122		10/10/96	Dixon et al.		
	B2	WO 96/40885		12/19/96	Chrysler et al.		
	B3	WO 98/13488		4/2/98	Dyrks et al.		
	B4	WO 98/21589		5/22/98	Virginia Lee		
	B5	EP 0848 062 A2		6/17/98	David J. Powell		
	B6	WO 98/26059		6/18/98	Chrysler et al.		
	B7	EP 0855 444 A2		7/29/99	David J. Powell		
	B8	WO 99/34004		8/7/99	Klaus et al.		
	B9	WO 99/31236		6/24/99	Bougueleret et al.		
	B10	WO 99/46281		9/16/99	Wood et al.		
	B11	WO 99/64587		12/16/99	Rholam et al.		
	B12	WO 00/23576		4/27/00	Hook		
	B13	WO 00/47618		8/17/00	Anderson et al.		
	B14	WO 00/58479		10/5/00	Citron et al.		
	B15	WO 00/56871		9/28/00	Postina		
	B16	WO 00/68266		11/16/00	Becker et al.		
	B17	WO 00/69262		11/23/00	Zhong et al.		
	B18	WO 01/00663		1/4/01	Tang et al.		
	B19	WO 01/00665		1/4/01	Tang et al.		
	B20	WO 01/29563		4/26/01	Christie et al.		
	B21	WO 01/31054		5/3/01	Christie et al.		
	B22	WO 01/36600		5/25/01	Zhu et al.		
85	B23	WO 01/38487		5/31/01	Zhu et al.		
Examiner Signature					Date Considered	4-17-03	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/688,314
Filing Date	September 22, 2000
First Named Inventor	Mark Gurney
Art Unit	1647
Examiner Name	Sharon Turner
Attorney Docket Number	29915/6280NCP

Sheet	3	of	4
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¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
GROUP 3600	C1	CHYUNG et al. Novel β -Secretase Cleavage of β -Amyloid Precursor Protein in the Endoplasmic Reticulum/Intermediate Compartment of NT2N Cells, <i>Journal of Cell Biology</i> , 138: 671-680 (August 11, 1997).	
	C2	EVIN et al., Alzheimer's disease amyloid precursor protein (A β PP): proteolytic processing, secretases and β A4 amyloid production, <i>Amyloid; Int. J. Exp. Clin. Invest.</i> 1: 263-280 (September 8, 1994).	
	C3	HAASS et al., Amyloid β -peptide is Produced by Cultured Cells During Normal Metabolism, <i>Nature</i> , 359: 322-325 (September 24, 1992).	
	C4	HAASS et al., β -Amyloid Peptide and 3-kDa Fragment are Derived by Distinct Cellular Mechanisms, <i>Journal of Biochemistry</i> , 268: 3021-3024 (February 15, 1993).	
	C5	HAASS et al., The Swedish Mutation Causes Early-Onset Alzheimer's Disease by β - Secretase Cleavage Within the Secretory Pathway, <i>Nature Medicine</i> , 12: 1291-1296 (December 1995).	
	C6	HIROSAWA et al., Characterization of cDNA Clones Selected by the GeneMark Analysis from Size-Fractionated cDNA Libraries From Human Brain, <i>DNA Res.</i> , 6(5): 329-336 (October 29, 1999).	
	C7	HUSSAIN et al., Identification of a Novel Aspartic Protease (Asp 2) as β -Secretase, <i>Molecular and Cellular Neuroscience</i> , 14: 419-427 (1999).	
	C8	KANG et al., The Precursor of Alzheimer's Disease Amyloid A4 Protein Resembles a Cell-Surface Receptor, <i>Nature</i> , 325: 733-736 (February 19, 1987).	
	C9	KITAGUCHI et al., Novel Precursor of Alzheimer's Disease Amyloid Protein Shows Protease Inhibitory Activity, <i>Nature</i> , 331: 530-532 (February 11, 1988).	
	C10	KNOPS et al., Cell-type and Amyloid Precursor Protein-type Specific Inhibition of A β Release by Bafilomycin A1, a Selective Inhibitor of Vacuolar ATPases, <i>Journal of Biological Chemistry</i> , 270: 2419-2422 (February 10, 1995).	
	C11	KOO and SQUAZZO Evidence that Production and Release of Amyloid β -Protein Involves the Endocytic Pathway, <i>Journal of Biological Chemistry</i> , 269: 17386-17389 (July 1, 1994).	
	C12	PONTE et al., A New A4 Amyloid mRNA Contains a Domain Homologous to Serine Proteinase Inhibitors, <i>Nature</i> , 331: 525-527 (February 11, 1988).	
	C13	SEUBERT et al. Secretion of β -amyloid Precursor Protein Cleaved at the Amino Terminus of the β -amyloid Peptide, <i>Nature</i> , 361: 260-263 (January 21, 1993).	

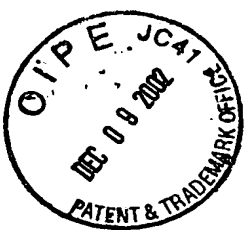
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				Application Number	09/688,314
				Filing Date	September 22, 2000
				First Named Inventor	Mark Gurney
				Group Art Unit	1647
				Examiner Name	Sharon Turner
Sheet	4	of	4	Attorney Docket Number	28341/6280NCP
<input checked="" type="checkbox"/>	C14	SINHA et al., Purification and Cloning of Amyloid Precursor Protein β -Secretase from Human Brain, <i>Nature</i> , 402: 537-540 (December, 2 1999).			
<input checked="" type="checkbox"/>	C15	SZECSI, The Aspartic Proteases, <i>Scand. J. Clin. Lab. Invest.</i> , 52 (suppl. 210): 5-22 (1992).			
<input checked="" type="checkbox"/>	C16	TANZI et al., Protease Inhibitor Domain Encoded by an Amyloid Protein Precursor mRNA Associated with Alzheimer's Disease, <i>Nature</i> , 331: 528-530 (February 11, 1988).			
<input checked="" type="checkbox"/>	C17	VASSER et al., β -secretase Cleavage of Alzheimer's Amyloid Precursor Protein by the Transmembrane Aspartic Protease BACE, <i>Science</i> , 286 (5440): 735-41 (October 22, 1999).			
<input checked="" type="checkbox"/>	C18	YAN et al., Membrane-anchored Aspartyl Protease with Alzheimer's Disease β -Secretase Activity, <i>Nature</i> , 402: 533-537 (December 2, 1999).			
<input checked="" type="checkbox"/>	C19	ZHAO et al., β -Secretase Processing of the β -Amyloid Precursor Protein in Transgenic Mice Is Efficient in Neurons but Inefficient in Astrocytes, <i>Journal of Biological Chemistry</i> , 271: 31407-31411 (December 6, 1996).			
<input checked="" type="checkbox"/>	C20	PCT Search report for PCT/US 99/20881			
<input checked="" type="checkbox"/>	C21	MULLAN et al., A Pathogenic Mutation for Probable Alzheimer's Disease in the APP Gene at the N-Terminus of β -Amyloid, <i>Nature Genetics</i> 1: 345-347, (August 1992).			
<input checked="" type="checkbox"/>	C22	Elan and Pharmacia form Alzheimer's disease research collaboration in the area of Beta-Secretase, News 08/09/2000, www.elancorp.com.			

Examiner Signature		Date Considered	4-15-03
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